



# Parcel C Remedial Action



## Project Update for Parcel C Hunters Point Naval Shipyard San Francisco, California

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Project Manager

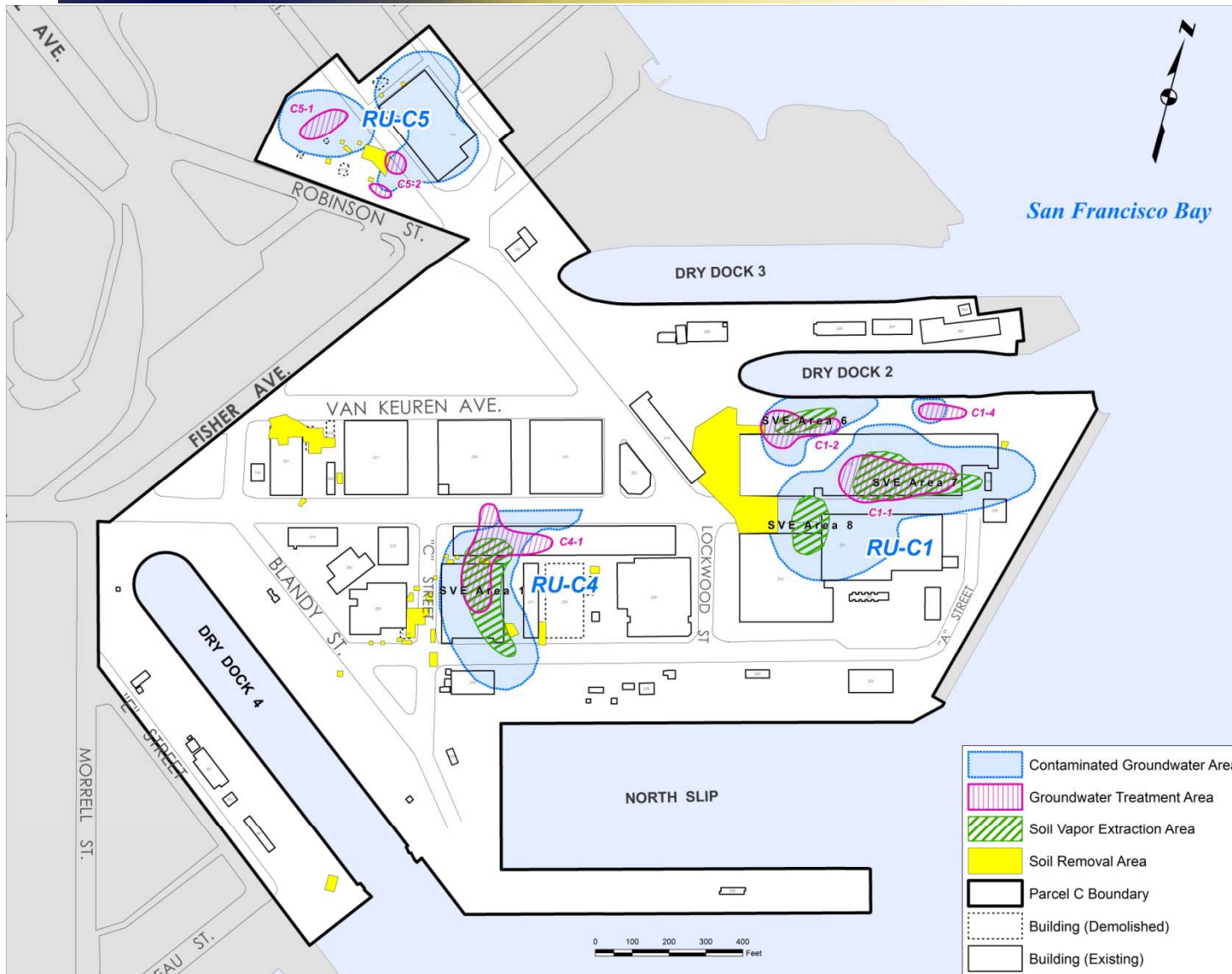
Support Contractor to NAVFAC BRAC PMO

BRAC Program Management Office West

**BCT Meeting, July 25, 2013**



# Parcel C Remedial Action





# RU-C2 Update



- Injected Sirem KB-1 Plus (Microbial cultures and sodium lactate) at Building 251 and 258 between July 9th and July 16th.
  - KB-1 Plus is a suite of custom-blended dechlorinating microbial cultures for bioaugmentation of sites with inhibitory concentrations of chloroethenes and other chlorinated VOCs
  - Includes the WBC-2 Culture that can degrade carbon tetrachloride and chloroform, and may have the potential to increase the degradation rate of di- and monochlorobenzenes under anaerobic conditions.





# RUC2 – Bio-Augmentation Injections



Injection of Lactate at Building 251 (C2-1 Plume) and 258 (C2-2 Plume).

- At each location, where an injection well was installed, SIREM KB-1 Plus was injected.
- Injected 214 gallons of 2.6% lactate solution and 1.6 liters of KB-1 Plus at each location.





# RU-C2 Preliminary Groundwater Results



## Building 251 (C2-1 Plume)

### Deep Zone (B Aquifer 40 – 50 ft. bgs)

- **PCE (6/7):** Detected at three locations above the PAL of 0.5  $\mu\text{g/L}$ , ranging from 3.2  $\mu\text{g/L}$  to 4,900  $\mu\text{g/L}$  (MW1B).
- Open Discussion

### Shallow Zone (A Aquifer 10-20 ft bgs)

- **PCE (4/9):** Detected at 4 locations above the PAL of 0.5  $\mu\text{g/L}$ , ranging from 1.4  $\mu\text{g/L}$  to 46  $\mu\text{g/L}$  (MW1A).





## RU-C2 -Schedule



### Schedule

- Monitoring well, SVE well, and soil vapor probe installation COMPLETE
- Baseline groundwater sampling – COMPLETE
- ISB injections COMPLETE
- Bio-augmentation injections – COMPLETE
- Groundwater sampling (1 month post injection event) – 8/09/2013  
(additional events 3, 6, 9, and 12 months after injections)
- Excavations – 8/15/2013 – 9/15/2013
- Installation of SVE system – 9/15/2013  
(following excavation 20B-1 which is adjacent to the SVE area)



# RU C-1, 4, 5 Update





# RU C-1, 4, 5 Update



## Schedule

- Decommissioning of monitoring wells in excavation areas COMPLETE
- Installation and development of the remediation monitoring wells COMPLETE
- Excavation of soil in SVE and/or groundwater remediation areas
  - Soil Excavation (RU-C5) # 10-3 & 11-2 COMPLETE THIS WEEK
  - Soil Excavation (RU-C1) NEXT WEEK
- Excavation of soil in all other remedial areas
- Installation and development of monitoring wells in excavation and radiologic areas
  - GW and Soil Vapor Characterization NEXT WEEK
  - Vapor Point Installation (RU-C1) NEXT WEEK
- Cleaning and capping of solvent pipes at Buildings 253 and 281 ~7/25-8/7





# Tech Memo Update



- Responding to additional comments from EPA, DTSC and Water Board
  - Mercury migration to the bay
  - Text revisions
- TRIAD Meeting after BCT Meeting today
- Submit Final Tech Memo 8/1/13



# ESD Update



- Contract to be awarded around August 19th
- Will include all revisions to the Final RAWP and Tech Memo
- Does not preclude most field work from commencing



# Durable Covers



- Durable Covers
  - New asphalt
  - Asphalt repair
  - Soil cover
- To remain in place following implementation of other elements of selected remedy
  - COCs remaining in soil exceeding RGs
- Proposals due next week



# Goodbye



**New PM is**  
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